

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
6 May 2005 (06.05.2005)

PCT

(10) International Publication Number
WO 2005/040632 A1

(51) International Patent Classification⁷: **F16D 66/02**

(21) International Application Number:
PCT/IB2004/003423

(22) International Filing Date: 18 October 2004 (18.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0324571.9 22 October 2003 (22.10.2003) GB

(71) Applicant (for all designated States except US): **AUTO-MOTIVE PRODUCTS ITALIA (SV) S.R.L.** [IT/IT]; Corso Marconi 160, I-17014 Cairo Montenotte Savona (IT).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **TESSITORE, Luigi** [IT/IT]; Via Nazionale Piemonte 2A-4, I-17100 Savona (IT).

(74) Agent: **MORRALL, Roger**; RM Patent Services, Twin Oaks, 88 Howes Lane, Finham, Coventry CV3 6PJ (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

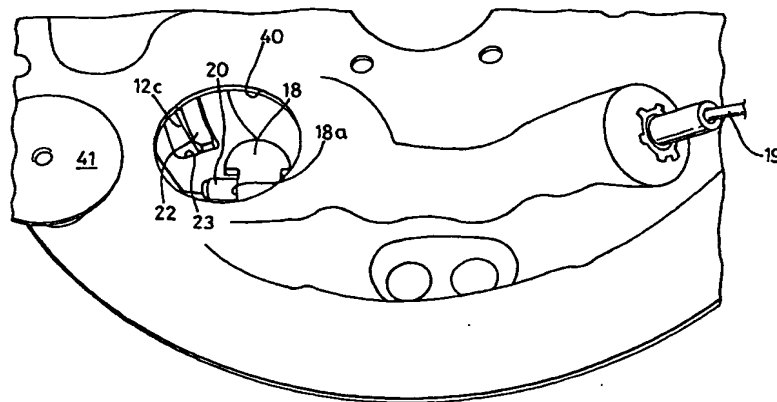
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **PARKING BRAKES**



(57) Abstract: A parking brake is described which has a backplate (13), first and second brake shoe portions (11,12) mounted on the backplate, a drum encircling the brake shoe portions, a parking lever (15) pivoted (21) adjacent one end on one (12) of the brake shoe portions, and a strut (17) extending between a first abutment on the parking lever (15) and a second abutment on the other (11) of the brake shoe portions. Operation of a driver operated handbrake lever pivots the parking lever relative to said one brake shoe portion (12) via a connecting cable (19) so that the parking lever moves from a retracted position to an operative position thus moving the strut (17) which in turn moves the other brake shoe portion (11) away from said one brake shoe portion (12) to bring the shoe portions into contact with the drum thus apply the parking brake. The backplate (13) includes a viewing opening (40), and the parking lever (15) and said one brake shoe portion (12) include datum surfaces (12c,22a) visible through the viewing opening from which the position of the parking lever (15) relative to said one brake shoe portion (12) can be assessed, thus enabling verification that the cable (19) is applying force to the parking lever (15) when the parking brake is released and is therefore tensioned to a predetermined level.

WO 2005/040632 A1